

# PCB 4023 Cell Biology – 2018 Fall

Professor: Dr. Lou W. Kim

Rafael Diaz-Balart 1100, Tu/Th 12:30PM - 1:45PM, Office Hour: Tu/Th 11:40-12:20 AM, AHC1-218C, Aug 20, 2018 - Dec 1, 2018

## Goals of Cell Biology

You will learn the biology of the cell at the structural, functional, and molecular levels and develop critical thinking capability by active engagement in clicker-based problem solving in-class activities and assignments.

**Text Book: Essential Cell Biology**, 4th Ed. Alberts et al., Garland Science

|                               |   |                    |
|-------------------------------|---|--------------------|
| 8/21, 8/23                    | Introduction to Cell Biology                          | Chapter 0          |
| 8/28, 8/30                    | Intro to Cells  | Chapter 1          |
| 9/4                           | Chemical Components of Cells                          | 2                  |
| 9/6, 9/11,                    | Energy and Catalysis                                  | 3                  |
| 9/13, 9/18, 9/20              | Protein Structure & Function                          | 4                  |
| 9/25, 9/27                    | Membrane Structure                                    | 11                 |
| 10/2,10/4                     | Membrane Transport                                    | 12                 |
| 10/9,10/11, 10/16             | Intracellular Compartments & Transport                | 15                 |
| 10/18                         | Exam 1  | 0,1,2,3,4,11,12,15 |
| 10/23, 10/25, 10/30, 11/1     | Cell Communication                                    | 16                 |
| 11/6 ,11/8                    | Cytoskeleton  | 17                 |
| 11/13, 11/15, 11/20           | The Cell Division Cycle                               | 18                 |
| 11/22                         | Thanks Giving   |                    |
| 11/27, 11/29                  | Cellular Communities: Tissues, Stem Cells, and Cancer | 20                 |
| Final Week (12/3-12/7)<br>TBA | Exam 2  | 16, 17, 18, 20     |

**Note:**

1. Lecture Notes will be posted.
2. There will be **two exams**.
3. Each exam will be multiple choice and true/false format.
4. In-class activity: Students will participate in-class problem-solving activity using **clicker**. Each activity will be counted as 50% for participation and 50% for choosing a correct answer.

**Grading = Two Exam Scores (60%) + Clicker Points (30%) + Assignment (10%)**

**Grading Scales:**

- A : 100 - 94.50
- A- : 94.49 – 89.50
- B+ : 89.49 – 86.50
- B : 86.49 – 82.50
- B- : 82.49 – 79.50
- C+ : 79.49 - 74.50
- C : 74.49 - 69.50
- D : 69.49 - 59.50
- F : below 59.49